

This listing of claims will replace all prior versions, and listings, of claims in the application:  
Listing of Claims:

1. (Amended) An aluminum metal-core weld wire for producing aluminum weld deposits, the weld wire comprising a sheath and a core, the sheath being aluminum or aluminum alloy and the core containing a composition which includes metal powders or metal alloy powders, the wire containing less than 5% by weight of elements that are not metals or metalloids.
2. (Original) The aluminum weld wire of claim 1 wherein, in addition to aluminum, the wire contains in approximate weight percent:

Si	0-15
Cu	0-7.0
Mg	0-6.0
Mn	0-1.5
Ba	0-0.5

2. (Original) The aluminum weld wire of claim 1 wherein, in addition to aluminum, the wire contains in approximate weight percent:

Si	0-15
Cu	0-7.0
Mg	0-6.0
Mn	0-1.5

3. (Original) The aluminum weld wire of claim 1 wherein, in addition to aluminum, the wire contains in approximate weight percent:

Si	0-15
Cu	0-7.0
Mg	0-6.0
Ba	0-0.5

5. (Original) The aluminum weld wire of claim 1 wherein the weld wire contains magnesium or silicon in an amount of at least 4% by weight of the wire.

6. (Original) The aluminum weld wire of claim 5 wherein, in addition to aluminum, the wire contains in approximate weight percent:

Si	4.5-6.0
Fe	0.8 max.
Cu	0.3 max.
Mn	0.15 max.
Mg	0.1
Ti	0.2 max.

7. (Original) The weld wire of claim 5 wherein, in addition to aluminum, the wire contains in approximate weight percent:

Si	0.25 max.
Fe	0.4 max.
Cu	0.1 max.
Mn	0.05-0.20
Mg	4.5-5.5
Cr	0.05-0.20
Ti	0.06-0.20

8. (Original) The aluminum weld wire of claim 1 wherein the sheath is formed from a 4000 or 5000 series aluminum alloy.

9. (Original) The aluminum weld wire of claim 8 wherein the sheath is formed from a 5052 or 5056 aluminum alloy.

10. (Original) The aluminum weld wire of claim 1 wherein the core composition has the following composition in approximate weight percent:

	%
Al powder	0-100.00
Si	0-4.0
Ca	0-2.0
Mn	0-6.0
Zr	0-2.5
Cr	0-3.33
Ti	0-10
Ba	0-1.5

11. (Original) The aluminum weld wire of claim 1 wherein the core composition has the following composition in approximate weight percent:

	%
Al powder	75-95.00
Si	0-4.0
Ca	0- 2.0
Mn	0-1.60
Zr	0-1.00
Cr	0-.40
Ti	0-3.00
Ba	0-1.5

12. (Original) The aluminum weld wire of claim 1 wherein the core composition contains barium.

13. (Original) The aluminum weld wire of claim 10 wherein the core composition contains up to 1.5% barium.

14. (Original) The alumin unweld wire of claim 13 wherein the core composition contains a powder of a barium-containing alloy.

15. (Original) The aluminum weld wire of claim 14 wherein the barium-containing alloy is selected from the group consisting of BaSi or CaSiBar.

16. (Original) The aluminum weld wire of claim 1 wherein the core composition contains MnN.

17. (Original) The aluminum weld wire of claim 16 wherein the core composition contains [up to] about 1 to 6% MnN.

18 – 24 Withdrawn from Consideration

25. Cancelled.

26. (New) The aluminum weld wire of claim 1 wherein the elements that are not metals or metalloids are hydrogen, carbon, nitrogen, oxygen, phosphorous, sulfur, selenium and halides.

27. An aluminum metal-core weld wire for producing aluminum weld deposits, the weld wire comprising a sheath and a core, the sheath being aluminum or aluminum alloy and the core containing a composition which includes metal powders or metal alloy powders and the wire

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contains MnN in an amount of about 1 to 6% by weight based on the total weight of the wire or barium in an amount of about 0.1 to 1.5% by weight based on the total weight of the wire.